

Chemistry Outlook

An Activity of
The Committee on Chemistry in the Two-Year Colleges
Division of Chemical Education
American Chemical Society



Dolores C. Aquino, 2006 Chair

7

N otes From The Chair

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Dolores C. Aquino
San Jacinto College Central
Pasadena, TX

Who Is 2YC₃ ?

What Does 2YC₃ Do ?

What Are Some Projects of 2YC₃ ?

Why Join 2YC₃ ?

How Do I Join 2YC₃ ?

These questions and some brief answers are part of our newly revised membership brochure. This brochure is available for use by all our members to promote 2YC₃, to inform your colleagues and administration about 2YC₃, and to assist you in any other way you find useful.

We have included the brochure in the distribution package at the Chemistry section of meetings of the Texas Community College Teacher's Association to promote the 2YC₃ organization. The brochure can be included with travel requests to your school for attendance at a 2YC₃ conference. The brochures are very informative as part of a presentation to your campus.

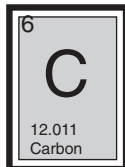
We are indebted to Past Chair Rick Bolesta of Mount Hood Community College and current Treasurer Kelly Befus of Anoka-Ramsey Community

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Conference Calendar

2006 - 2007 Academic Year

175th Conference (Western)

October 13-14, 2006, Pima County Community College
Tucson, AZ

Contact: Dave Katz
Email: david.katz@pima.edu

176th Conference (Southern)

November 10-11, 2006, San Antonio College,
San Antonio, TX

Contact: Bill Haley
Phone: (210) 733-2712
Email: whaley@accd.edu

177th Conference (Midwestern)

March 23-24, 2007, Joliet Junior College, Joliet, IL

Contact: Dr. Marie Wolff
Phone: (815) 729-9020 ext. 6701
Email: mwolff@jjc.edu

Remember to check the web for information on future meetings! <http://2yc3.org>

continued from page 1 "Notes from the Chair"

College for their efforts that brought this version of the brochure into existence.

You may request brochures from Kelly at the address listed elsewhere in this newsletter, or at: kelly.befus@anokaramsey.edu

On another topic, you will find program and travel information in this newsletter for our next conference. The 175th Conference will be held at Pima Community College in Tucson, Arizona, October 13-14, 2006. Thanks go to conference chair David Katz, who stepped in at the last minute after the host of a previously scheduled site cancelled.

This conference partially overlaps the ACS 19th Rocky Mountain Regional Meeting to be held in Tucson October 14-18. We are interested in your opinions of "piggybacking" our conference onto an ACS regional meeting.

176th Conference(Southern) San Antonio College San Antonio, TX 78212-4201 November 10 and 11, 2006 Preliminary Information

A Symposium on undergraduate research has been tentatively scheduled for Friday, November 10. Participants in the symposium currently: David Brown, Southwestern College(CA), Dan Stanford, Harper College(IL), Tom Higgins, Harold Washington College(IL) and Linette Watkins, Texas State University(TX). The symposium will consist of individual talks and a roundtable discussion.

Dr. Watkins is also assisting us in setting up a POGIL one-half day workshop for Saturday afternoon.

Talks about the different chemistry courses we teach are also being scheduled. Dr. John Hutchinson of Rice University will discuss a modified Socratic approach he uses to teach General Chemistry on Saturday morning. In addition to teaching, Dr. Hutchinson is the Director of Education for the NSF funded Center for Biological and Environmental Nanotechnology at Rice University and will also speak on opportunities in undergraduate research at CBEN.

What should we teach in the first year Organic Chemistry course? Dr. Joel Karty of Elan University has written a book entitled the "Nuts and Bolts of Organic Chemistry" in which he suggests some things to keep in the course and some things to not emphasize. He is also scheduled to give a presentation Saturday morning.

A detailed schedule will be found on the 2YC3 website (www.2yc3.org) as the conference develops.

Contacts: Mr. Bill Haley, phone: 210-733-2712, email: whaley@accd.edu

Dr. Usha Krishnan, phone: 210-733-2709, email: ukrishnan@accd.edu

Dr. Krishnan Madappat, phone: 210-733-2709, email: kmadappa@accd.edu

Dr. James Petrich, phone: 210-733-2711, email: jpetrich@accd.edu

Call for Papers for the 176th Conference at San Antonio College
November 10 and 11, 2006

We would like to invite anyone to present a paper at our conference dealing with all those things we do in teaching chemistry lectures and laboratories at the freshman and sophomore levels. A symposium on undergraduate research is scheduled for Friday November 10, however, additional presentations can be held along with the research talks. Talks on what topics are essential to cover in Introductory, GOB, General or Organic chemistry, what works for you in helping your students learn, innovative new approaches or tried and true approaches are just what we would like to hear about.

Contact: Bill Haley, phone: 210-733-2712 email: whaley@accd.edu

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American Chemical Society
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2YC₃ World Wide Web Page: <http://2yc3.org>, Lance Lund
(Lance.Lund@anokaramsey.edu) WebMaster

2YC₃ Membership Form

Please consider supporting the 2YC₃ by becoming a member or renewing your membership. Annual dues are only \$15.

Special Offer: Annual dues are \$15 for the 2YC₃ and \$20 for the American Chemical Society of Chemical Education (DivCHED). If you are not already a member of DivCHED, you may join both organizations today for a total of \$30, a savings of \$5.

I wish to:

- Become a member of 2YC₃
 Renew my 2YC₃ Membership
 Join DivCHED as a member (ACS members only) and 2YC₃
 Join DivCHED as an affiliate* (non ACS members) and 2YC₃
*affiliates have all membership privileges except voting and holding elective office.

I am a:

- Two-Year College Teacher Four-Year College Teacher
 High School Teacher Other

Your Name: _____

Institution: _____

Address: _____
Street City, State 9-Digit Zip Code

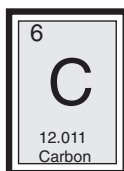
Phone: _____ **Email:** _____

Send ACS Member Form? Yes No

Please send your check, payable to 2YC₃, for \$15 (2YC₃ only) or \$30 (joint membership) to:

Patty Pieper, Anoka-Ramsey Community College, 11200 Mississippi Blvd NW, Coon Rapids, MN 55433-3470.

175th 2YC₃ Conference
And
Rocky Mountain Regional ACS Meeting
“Visualizing Chemistry: With Emphasis on Case Studies and Chemical
Demonstrations”
October 13-14, 2006
Pima Community College, West Campus
2202 W Anklam Road, Tucson, AZ 85709-0270



Conference Program

Program Chair: David Katz, email: katzdavid@hslc.org, phone: 520 206-6044

Alternate Contact: Edward A. Kremer, email: ekremer@kckcc.edu, phone: 913 288-7111

Thursday, October 12:

6:00-9:00 Social Hour Inn Suites Hotel

Friday, October 13:

8:00-9:00 Continental Breakfast

8:00-4:00 Registration and Exhibits

9:00-9:15 Welcome and Opening Remarks

9:15-10:15 Keynote Address - David Katz, “Chemical Visualizations and Demonstrations.”

10:15-10:30 Refreshments and Exhibits

Additional Talks, Papers - To be Announced

12:00-1:30 Lunch and 2YC₃ General Membership Meeting

Additional Talks, Papers - To be Announced

2:30-5:30 Workshop A, Forensic Science

2:30-5:30 Workshop B, Case Studies

3:15-3:30 Refreshments and Exhibits

6:30 Banquet, El Parador restaurant

Saturday, October 14:

8:00-4:00 Exhibits

8:00-9:00 Registration and Continental Breakfast

12:30-1:30 Lunch

4:00 Conference Closing

TBA Executive Committee Meeting

For “an up to date” conference program, please go to the 2YC₃ webpage: <http://2yc3.org>

On Saturday the Rocky Mountain Regional Meeting ACS (RMRM) will be hosting a POGIL workshop at the Double Tree Hotel in Tucson. You can register for and attend this workshop without registering for the RMRM.

Call for Papers for the 175th 2YC₃ Conference

If you are interested in presenting a paper or poster or facilitating a workshop, please send an abstract to Dr. Ed Kremer at ekremer@kckcc.edu and/or Dr. David Katz at dakatz45@msn.com. The theme of the conference is “Visualizing Chemistry and Case Studies.” Posters and papers by students involved in undergraduate research are welcome.

Visiting Tucson

Tucson has been continuously settled for over 12,000 years. It celebrates a diversity of cultures, architecture, and peoples. Yet, it is one of the “Mega-Trend” cities of the 21st Century: the Optics Valley, premier health services center for the Southwest, the astronomy center of the world, home of a premier research institution - University of Arizona, and a tourist destination.

Pima Community College’s West Campus, the oldest and largest in the six-campus Community College system, is located near central Tucson. The Sonoran Desert surrounds the West Campus, which features hiking trails, shaded gathering areas, and landscaped courtyards.

Go to <http://www.pima.edu/maps/index.shtml?map=5> for directions to get to the Pima Community College West Campus.

Lodging

A block of rooms is reserved for our meeting until September 12th, 2006 at the:

Inn Suites Hotel, Tucson City Center
475 N. Granada, Tucson, AZ 85701

Telephone for reservation: 1-800-842-4242 Please mention the 2YC₃ conference!

The hotel has a complimentary hot breakfast buffet with fruit, cereal, and homemade Belgian waffles and free afternoon social hours to relax and meet new friends.

There are many other complimentary amenities available: high speed internet access in every guest room and free wireless internet in the lobby, meeting room facilities, and free Airport shuttle.

For further information, please browse through the hotel website: <http://stmarys.innsuites.com/>

Directions to Pima Community College from Inn Suites Hotel. Start out going north on N. Granada Ave toward W St. Marys Rd. W. St Marys Rd becomes W. Anklam Rd. The college is located at 2202 W Anklam Rd (2.25 miles from hotel). Follow the 2YC₃ signs to parking lot and building location.

Please plan to attend this exciting conference! Pre-registration form is located on page 6 of this newsletter and also on the 2YC₃ web site, <http://2yc3.org>

175th Two-Year College Chemistry Consortium (2YC₃) Conference
Pima Community College
Tucson, AZ
October 14-15, 2006

Name _____ Institution _____

City _____ State _____ Zip Code _____

Phone Number(s) _____

E-mail Address(es) _____

I teach at a High School _____ 2-Year College _____ 4-Year College _____

Conference Fees

Registration (current 2YC₃ members) @ \$20.00* \$ _____

Registration (includes 2YC₃ membership) @ \$35.00 \$ _____

Friday evening banquet @ \$25.00 \$ _____

Friday lunch @ \$10.00 \$ _____

Saturday lunch @ \$10.00 \$ _____

* There is no conference fee for high school teachers and students

Please send your registration form and check to:

David Katz, 175th 2YC₃
Pima Community College
2202 W. Anklam Road
Tucson, AZ 85709-0270

Make Checks Payable To: Pima Community College/2YC3

You are invited to contribute to the dialogue on student transitions!

Community colleges, with their wide range of missions and diverse student bodies, play an increasingly important role in higher education and preparing students for careers in science. More than half of the students currently pursuing postsecondary education in the United States are enrolled in community colleges,¹ and the total enrollments (both full- and part-time) at two-year institutions rose from 5.2 to 5.9 million from 1990 to 2000, with underrepresented minorities increasing their attendance by 65% during the same period.² The average age of these students has also decreased over the past two decades due to an increase of students between 18 and 24 years of age—students who are more likely to transfer.³

Successful transfer from a community college to a four-year institution is often the only opportunity for low- to moderate-income students to graduate with a bachelor's degree. Facilitating student transfer is a complex process—there is no simple solution or single approach to recommend. It is absolutely crucial that chemistry programs and faculty at both two- and four-year institutions communicate among each other, ensuring that transfer and articulation policies are implemented in a way that helps students gain access to chemistry programs and graduate.

The article *Paving the Pathway for Tomorrow's Chemistry Students*, published in the Spring 2006 Committee on Professional Training Newsletter (www.chemistry.org/education/cpt), shares some insights into the recent interactions between two- and four-year programs and extends the dialogue on student transitions. These important discussions must continue!

Faculty from two- and four-year colleges are invited to share the challenges associated with student transfer and their strategies for overcoming them. How do you ensure that:

- o transfer students have the prerequisites needed for chemistry courses?
- o the level of the courses that students have taken is appropriate?
- o students have sufficient support prior to and after transferring?

Answers to these questions and additional insights should be sent to Jodi Wesemann at j_wesemann@acs.org. Stay tuned for Part 2 of *Paving the Pathways for Tomorrow's Chemistry Students*...

1 Education Commission of States, Transfer and Articulation Policies, February 2001, *ECS StateNotes*. <http://www.ecs.org/clearinghouse/23/75/2375.htm> (accessed on January 26, 2006).

2 National Center for Education Statistics. *Digest of Education Statistics, 2002* (NCES 2003060); U.S. Department of Education: Washington DC, 2003; p 245.

3 Adelman, C. *Moving Into Town—And Moving On: The Community College in the Lives of Traditional-Age Students*; U.S. Department of Education: Washington, DC, 2005.

AEI Poster Session

ACS National Meeting
San Francisco, CA, Moscone Convention Center – Hall D North
Monday, September 11
8:00 to 10:00 pm
Sci-Mix

Will your department be hiring new faculty this year?

If so, plan to attend the Academic Employment Initiative (AEI) to meet with potential new faculty candidates at the Sci-Mix poster session held at the ACS National Meeting, Monday evening, September 11, from 8-10 PM. This is the third year of the AEI, an ACS presidential program designed to support the academic hiring process by making it easier for departmental representatives to meet and interact informally with candidates.

At the Fall 2006 ACS meeting in San Francisco, CA, candidates seeking faculty positions will use the AEI Poster Session at Sci-Mix to present posters about their current research, expanding on their research interests, teaching philosophy, and experience. Faculty recruiters are invited to take advantage of this opportunity to meet as many candidates as possible.

Brief biographical sketches of each of this year's candidates will be available at www.chemistry.org/aei.html. Each bio links to the candidate's poster presentation abstract. Further information can be found at that website or by writing to GradEd@acs.org.

This event is cosponsored by PRES, CWD, CHED, CEPA, CMA, SOCED, WCC, PROF, and CPT. It is organized by the ACS Office of Graduate Education and ACS Department of Career Management and Development.

It Worked For Me

How many of you utilize TI-Graphing Calculators in your chemistry classes? How many of you get free calculators and laboratory interfaces from TI each semester? If you answered no to either of these questions then you might want to reconsider.

Last semester I found out from our math department that TI, Texas Instruments, will give departments calculators and accessories based on student enrollment in classes requiring the graphing calculator. I contacted TI and learned that if I submit the number of students in my chemistry, biology, and physics courses using graphic calculators, it is possible to receive calculators for the students based on enrollment. Since we utilize scientific calculators in our classes, I decided to try it. This summer I received 12 TI-84 calculators and two CBL interfaces. I'm building a classroom set for our college's high school Saturday Academy Program.

Here is the procedure that our math and science departments used to get the calculators. First, from our college website we printed out the fall schedule. This schedule shows the title of each course and the enrollment numbers. Second, we totaled these numbers and entered them on the forms that can be found at http://education.ti.com/educationportal/sites/US/nonProductMulti/support_VPP.html?bid=5 (bottom of the page). Third, we submitted copies of syllabi or a link to accessing syllabi, for the courses for which we submitted enrollment numbers. The syllabi must show that calculators are used in the classes. Fourth, we faxed in our order. Please remember to re-submit each semester.

Good luck on getting the calculators for your class. If you have any questions, please feel free to contact me.

Ed Kremer
Kansas City Kansas Community College

COLLEGE SPONSORS

“Once again we would like to thank our College Sponsors for their continued support of 2YC₃. Many of these colleges have been supporting the efforts of 2YC₃ for over 30 years...not only through yearly sponsorship, but through their continued support of their faculty in 2YC₃ as well.”

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William Rainey Harper College, IL
Yakima Valley Community College, WA

Thank you College Sponsors!

**To become a College Sponsor,
please go to the 2YC₃ website,
<http://2yc3.org>.**

**Call for application for the office of
Chair-Elect of COCTYC for the year 2008**

Application for Chair-Elect for 2008 must include:

- a. Pertinent personal data such as name, college, job title, address, etc.
- b. Brief statement of pertinent qualification, signed by the nominee.
- c. A statement indicating a willingness to serve signed by the nominee.
- d. A statement of support from an appropriate person in the applicant's school.
- e. To be eligible to be nominated an individual must:
 1. be a two-year college chemistry teacher
 2. have been a dues paying member of 2YC3 a minimum of three years prior to nomination
 3. be a member of DivCHED
 4. have demonstrated leadership and organizational ability by serving as Chair or Co-Chair for a conference and in one or more of the following capacities:
 - a. served three years on the Executive Committee
 - b. served as Local Arrangements Chair for a Conference

- c. chaired a sub-committee
- d. contributed within the past three years two or more ways such as:

- acted as local industrial sponsor coordinator,
- chaired a conference section,
- presented a paper at a conference,
- moderated a panel at a conference,
- other ways an individual has contributed

- Applications must be received by the Chair no later than September 1, 2006.
- The COCTYC will serve as a nominating/screening committee to generate a slate of two candidates.
- Each 2YC3 member shall vote for one nominee and the candidate who receives the greater number of votes shall be declared elected.
- Ballots must be received by the Chair postmarked no later than 12/31/2006.
- Ballots will be counted by the Chair in the presence of a Notary.
- The results of the election will be reported in the first possible newsletter.

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Middle Tennessee State University, Murfreesboro, TN 37132

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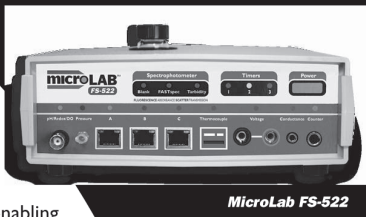
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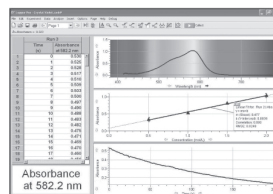
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